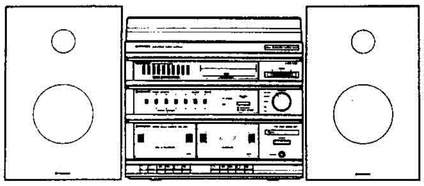
PIONEER®
The future of sound and vision.

Service Manual



ORDER NO.
ARP 1523

SHELF COMPONENT SYSTEM

MS-Z7

MODEL MS-Z7 COMES IN TWO VERSIONS DISTINGUISHEDD AS FOLLOWS:

Type	Power requirement	Export destination
S	AC 110 V, 120 V, 220 V, 240 V (switchable)	General market
SP	AC 110 V, 120 V, 220 V, 240 V (switchable)	Australia

- **This service manual is applicable to the S and SP types.**

PIONEER ELECTRONIC CORPORATION 4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153, Japan
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PIONEER ELECTRONIC [EUROPE] N.V. Keetberglaan 1, 2740 Beveren, Belgium
PIONEER ELECTRONICS AUSTRALIA PTY. LTD. 178-184 Boundary Road, Braeside, Victoria 3195, Australia TEL: [03] 580-9911

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1. SPECIFICATIONS

Amplifier Section

Peak music power
L + R channels 220W

MUSIC power
1 kHz, T.H.D. 10%, 4Ω . . . . 55W + 55W

Continuous average power output is 12 watts per channel, min., at 4 ohms from 40 Hertz to 20,000 Hertz with less than 0.9% total harmonic distortion.

Effective maximum output . . . .
1 kHz, T.H.D. 10% (EIAJ) . . . . 22W + 22W

Frequency Response
PHONO MM . . . . 40 Hz to 20,000 Hz ±3 dB
CD/AUX . . . . 40 Hz to 20,000 Hz ±3 dB

Hum and Noise (IHF, short circuited, A network)
PHONO MM . . . . 60 dB
CD/AUX . . . . 70 dB

Graphic Equalizer frequency band . . . .
100 Hz, 300 Hz, 1 kHz, 3.0 kHz, 10 kHz, ±8 dB

FM Tuner Section

Frequency range . . . . 87.5 MHz to 108 MHz
Usable Sensitivity . . . . . . 20.8 dBf, IHF (3 μV/75 ohms)
Distortion
STEREO/MONO . . . . 1% (1 kHz)
Alternate Channel Selectivity . . . . . 30 dB (400 kHz)
Signal-to-Noise Ratio (IHF, 85 dBf Input) . . Mono: 60 dB
Stereo: 55 dB
Stereo Separation . . . . 30 dB (1 kHz)
Frequency Response . . . . ±3 dB (40 Hz to 15 kHz)
Antenna Input . . . . 300Ω balanced
75Ω unbalanced

AM Tuner Section

Frequency range . . . . 530 kHz to 1,602 kHz
Sensitivity (Ferrite-bar antenna) . . . . 500 μV/m
Antenna . . . . Ferrite-bar Antenna
Signal-to-Noise Ratio . . . . 50 dB
Selectivity . . . . 20 dB
Distortion 1%

Tape Deck Section

Systems . . . . 4 track, 2-channel stereo
Heads . . . . Recording/playback head × 1
Erasing head × 1
Wow and Flutter . . . . No more than 0.2% (WRMS)
Fast Winding Time . . . . Approximately 150 seconds
(C-60 tape)

Frequency Response
−20 dB recording:
Normal tape . . . . 40 Hz to 15,000 Hz ±4 dB
Signal-to-Noise Ratio 40dB
Distortion . . . . 3% (1 kHz)

Furnished Parts

FM T-type Antenna 1
Operating Instructions 1

Turntable Section

Motor, Platter

Motor Type . . . . DC servo motor
Drive Method . . . . belt drive
Speed . . . . 33-1/3, 45 rpm
Speed Variation . . . . 0.3% WRMS (JIS)
Signal-to-Noise Ratio . . . . 50 dB (DIN-B)
Platter . . . . 280 mm dia.

Tonearm

Type . . . . static-balance type, straight tonearm

Installed Cartridge

Type . . . . MM type
Replacement stylus . . . . . audio-technica "ATN3600L"

Miscellaneous

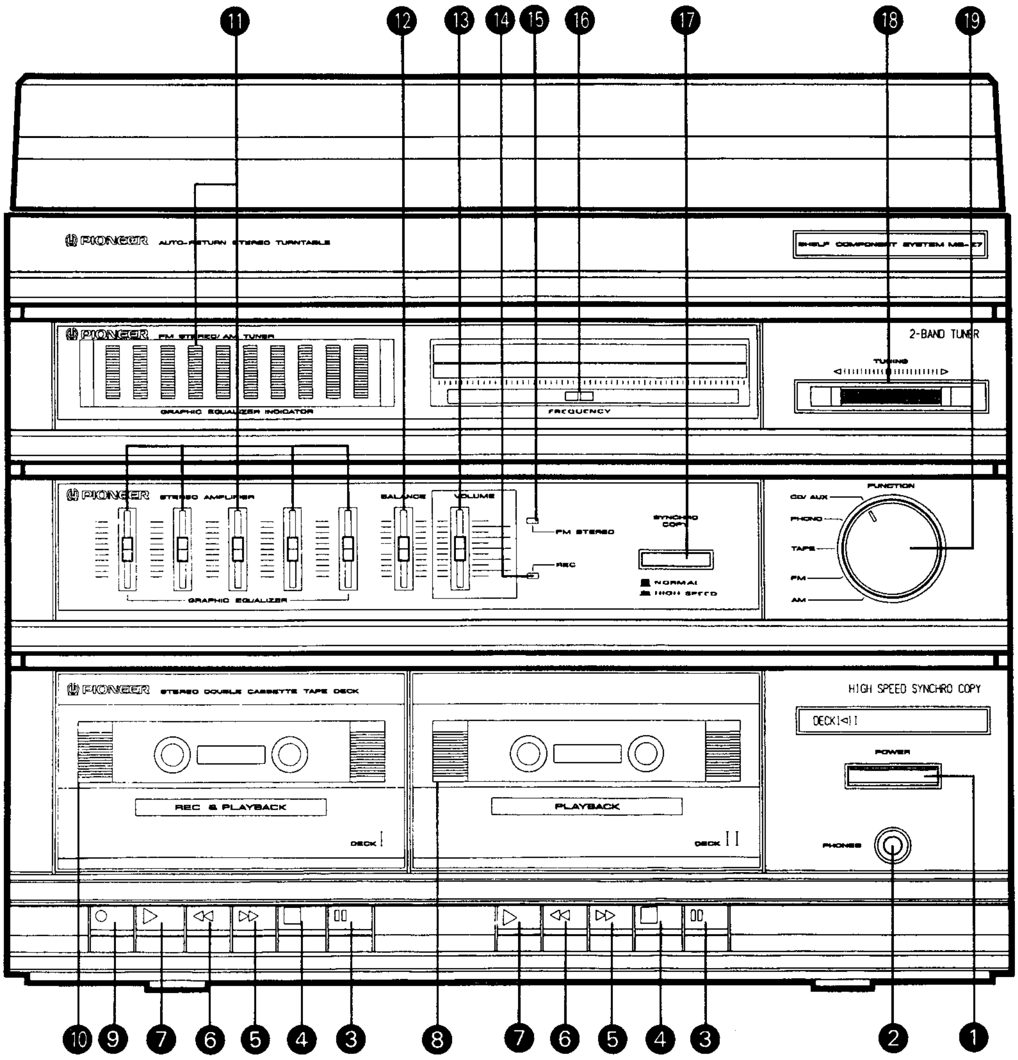
Power Requirements . . . .
AC 110/120/220/240 Volts, 50/60 Hz
Power Consumption 115W
Dimensions (without package) . . . .
360(W) × 328(H) × 373(D) mm
14-2/5(W) × 12-1/5(H) × 14-3/4(D) in
Weight (without package) . . . . 7.8 kg (17 lb 7 oz)

Speakers Section

System . . . . 2-way 2-speaker system
Loudspeakers:
Woofer . . . . 16 cm (6-1/2 in)
Tweeter . . . . 6 cm (2-1/2 in)
Nominal Impedance 4Ω
Dimensions (without package)
230(W) × 360(H) × 170(D) mm
9-1/20(W) × 14-2/5(H) × 6-3/5(D) in
Weight (without package) 1 set . . . 5.8 kg (12 lb 28 oz)

NOTE:
Specifications and the design subject to possible modifications without notice due to improvements.

2. PANEL FACILITIES


⓫
⓬
⓭
⓮
⓯
⓰
⓱
⓲
⓳
PIONEER AUTO-RETURN STEREO TURNTABLE
SHELF COMPONENT SYSTEM MS-Z7
PIONEER FM STEREO/AM TUNER
GRAPHIC EQUALIZER INDICATOR
FREQUENCY
2-BAND TUNER
TUNING
PIONEER STEREO AMPLIFIER
BALANCE
VOLUME
FM STEREO
REC
SYNCHRO COPY
NORMAL
HIGH SPEED
GRAPHIC EQUALIZER
FUNCTION
CD/AUX
PHONO
TAPE
FM
AM
PIONEER STEREO DOUBLE CASSETTE TAPE DECK
REC & PLAYBACK
DECK I
PLAYBACK
DECK II
HIGH SPEED SYNCHRO COPY
DECK I◁II
POWER
PHONES
❿
❾
❼
❻
❺
❹
❸
❽
❼
❻
❺
❹
❸
❷
❶

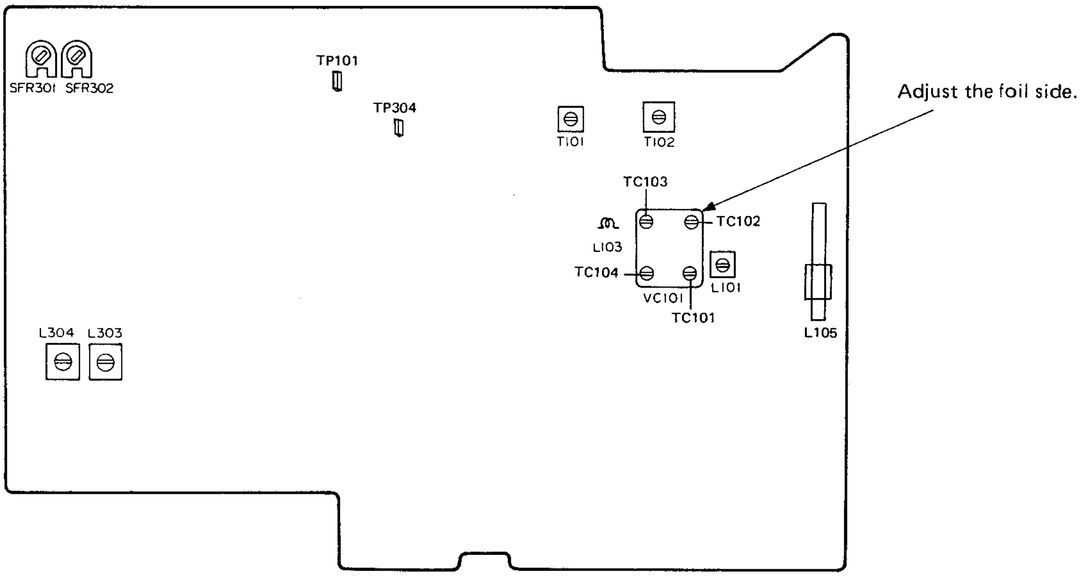
❶ **POWER Switch**
❷ **HEADPHONE Jack**
❸ **PAUSE Button**
❹ **STOP/EJECT Button**
❺ **FAST FORWARD Button**
❻ **REWIND Button**
❼ **PLAY Button**
❽ **DECK II Compartment**
❾ **RECORDING Button**
❿ **DECK I Compartment**
⓫ **GRAPHIC EQUALIZER Controls & Indicators**
⓬ **BALANCE Control**
⓭ **VOLUME Control**
⓮ **REC Indicator**
⓯ **FM STEREO Indicator**
⓰ **Dial Pointer**
⓱ **SYNCHRO COPY Switch**
⓲ **TUNING Control**
⓳ **FUNCTION Selector**

8.3 CASSETTE ELECTRICAL ADJUSTMENT

Item	Signal Source	Output Indicator	Mode	Adjustment	Specification
Head azimuth adjustment	Insert 10 kHz Test tape (SPD-331B)	VTVM connect to output terminal See Fig. 2	Playback	Head azimuth adjustment screw ① See Fig. 2	Maximum

8.4 CASSETTE MECHANISM ADJUSTMENT

Item	Measurement Method	Mode	Specification	Adjustment Method	Remarks
Take-up tension adjustment	Cassette torque test tape as showin in Fig. 4	Playback	40-70 gr•cm	Carefully band spring either direction to achieve between 40•70 gr•cm take-up torque See Fig. 3	Clean the oil and dust adhering to flywheel belt and the rubber ring of the take-up reel table.


SFR301
SFR302
TP101
TP304
T101
T102
TC103
TC102
L103
TC104
L101
VC101
TC101
L105
L304
L303

Adjust the foil side.

Fig. 1

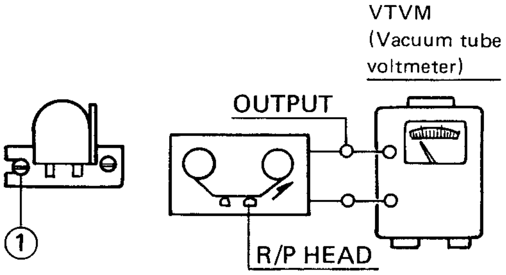

VTVM
(Vacuum tube voltmeter)
OUTPUT
R/P HEAD
①

Fig. 2

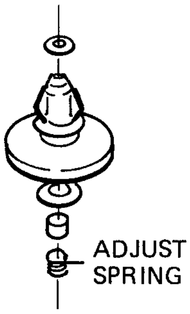

ADJUST SPRING

Fig. 3

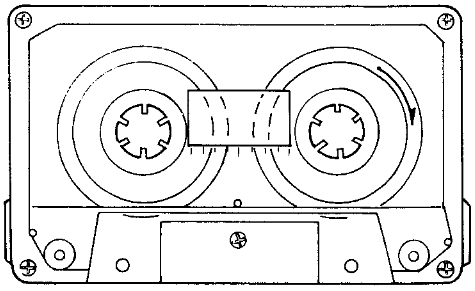
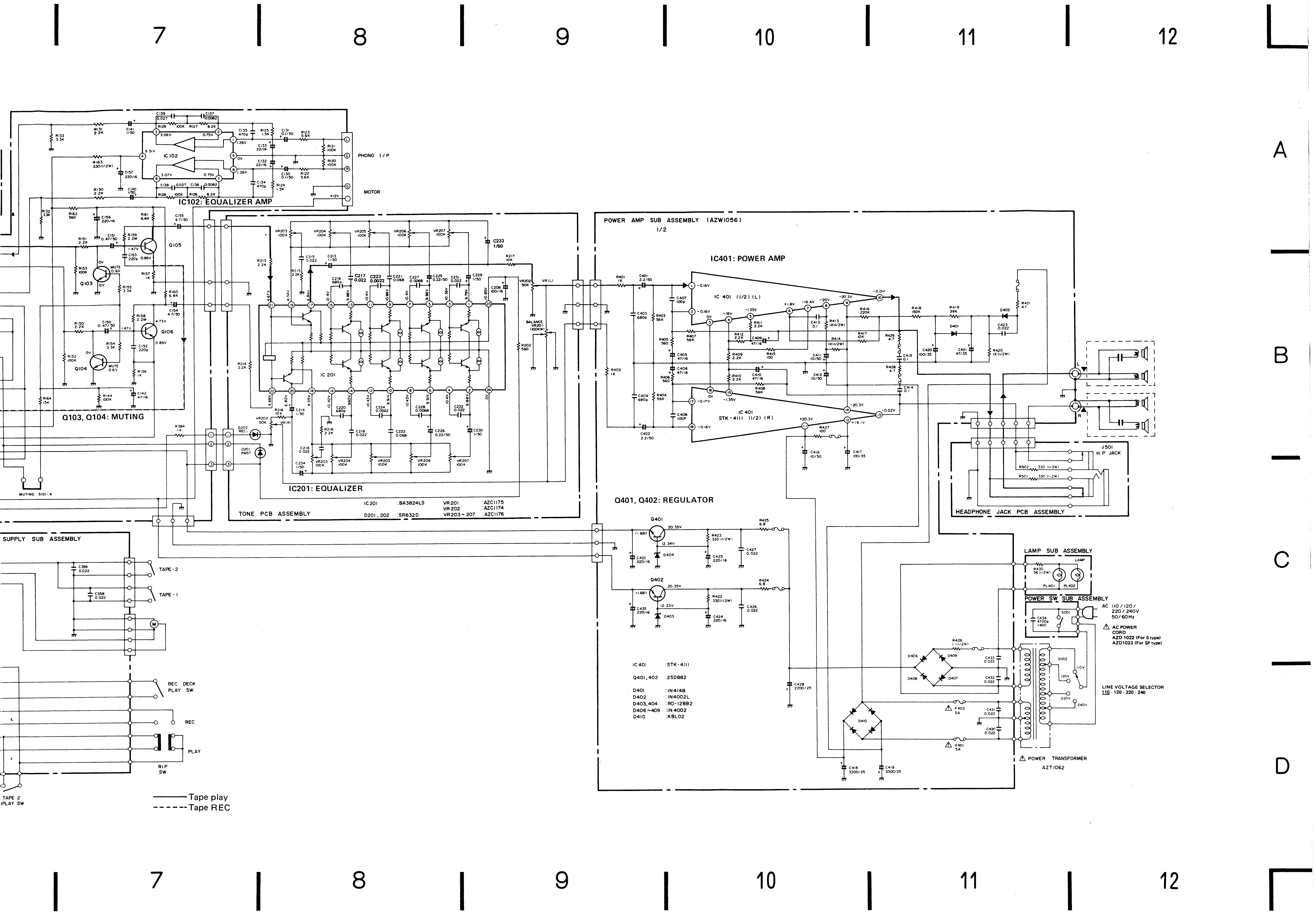
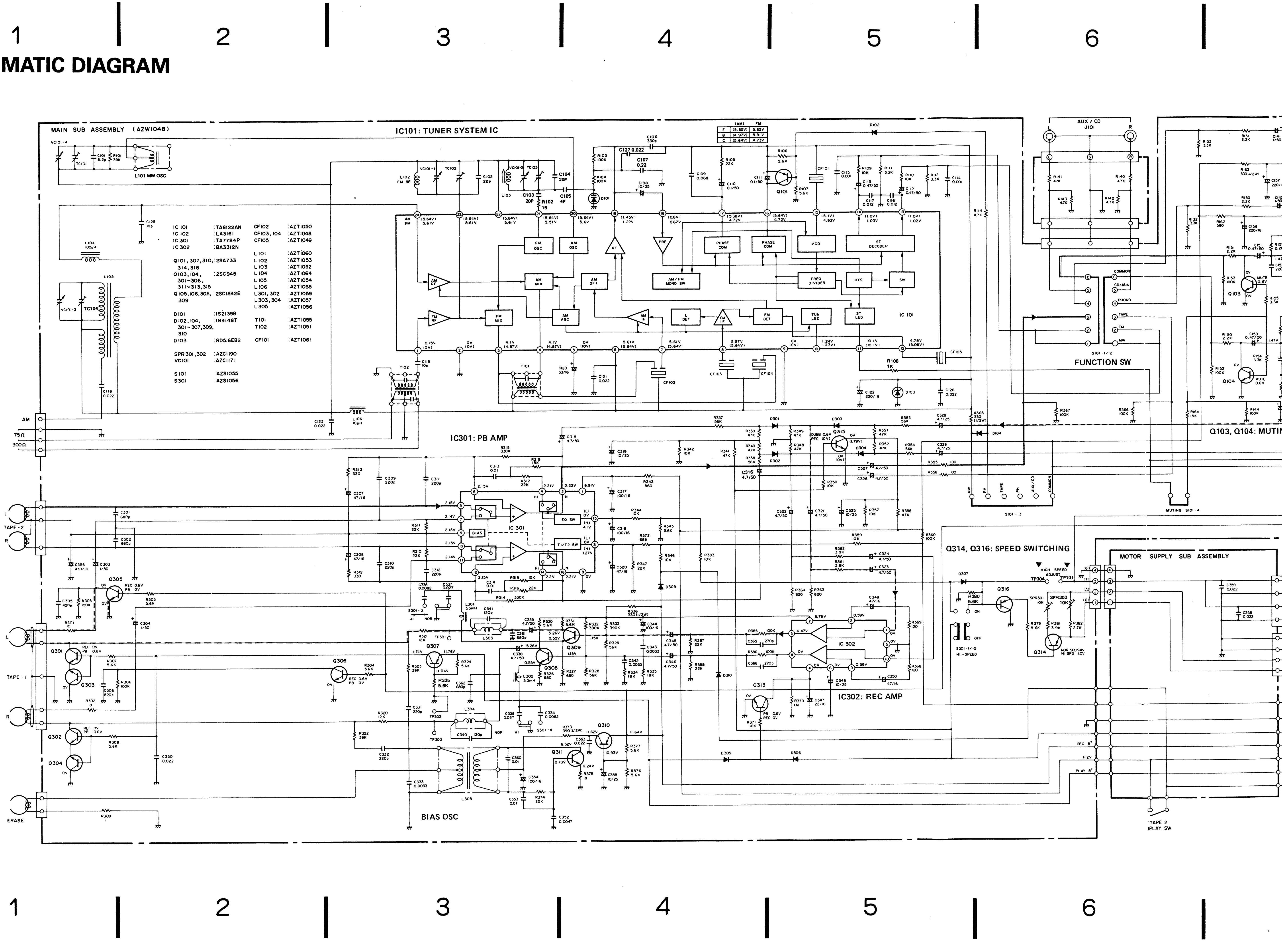


Fig. 4

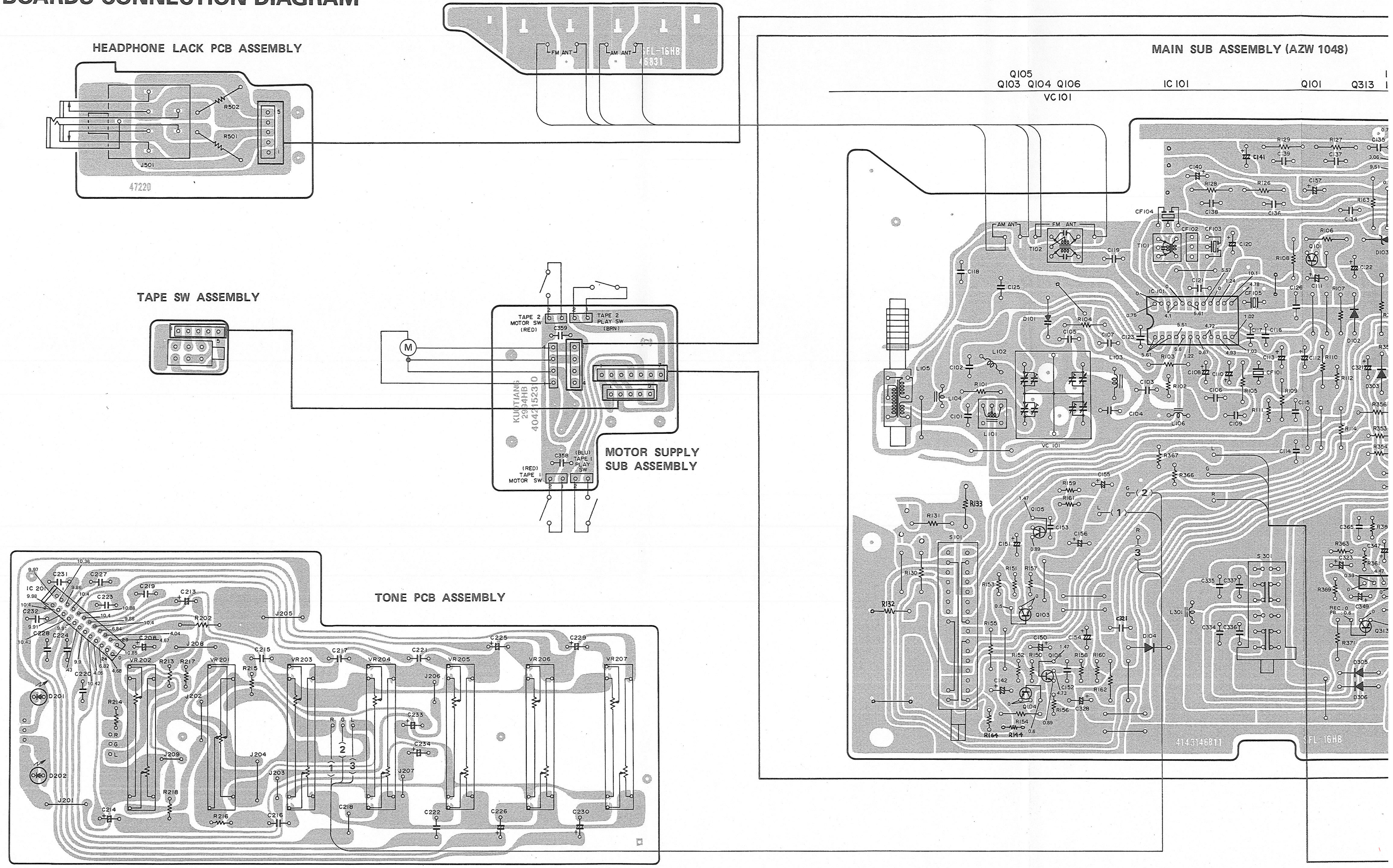

7
8
9
10
11
12
A
B
C
D
IC102: EQUALIZER AMP
IC 102
PHONO I/P
MOTOR
+12V
Q103, Q104: MUTING
Q103
Q104
Q105
Q106
MUTE
MUTING S101-4
IC201: EQUALIZER
IC 201
TONE PCB ASSEMBLY
IC201 :BA3824LS
D201, 202 :SR632D
VR201 :AZC1175
VR202 :AZC1174
VR203 ~ 207 :AZC1176
BALANCE VR201 (100KW)
D202 REC.
D201 PMST
POWER AMP SUB ASSEMBLY (AZW1056) 1/2
IC401: POWER AMP
IC 401 (1/2) (L)
IC 401 STK-4111 (1/2) (R)
Q401, Q402: REGULATOR
Q401
Q402
IC401 :STK-4111
Q401,402 :2SD882
D401 :IN4148
D402 :IN4002L
D403,404 :RD-12BB2
D406~409 :IN4002
D410 :KBL02
J501 H.P JACK
HEADPHONE JACK PCB ASSEMBLY
LAMP SUB ASSEMBLY
LAMP
PL401
PL402
POWER SW SUB ASSEMBLY
S001
S002
AC 110/120/220/240V 50/60Hz
⚠ AC POWER CORD
AZD 1022 (For S type)
AZD1023 (For SP type)
LINE VOLTAGE SELECTOR
110 - 120 - 220 - 240
⚠ POWER TRANSFORMER
AZT1062
⚠ F401 5A
⚠ F402 5A
SUPPLY SUB ASSEMBLY
TAPE-2
TAPE-1
REC DECK PLAY SW
REC
PLAY
RIP SW
TAPE 2 PLAY SW
Tape play
Tape REC

5. SCHEMATIC DIAGRAM


1
2
3
4
5
6
A
B
C
D
MAIN SUB ASSEMBLY (AZW1048)
IC101: TUNER SYSTEM IC
L101 MW OSC
AM
FM
AM OSC
FM OSC
AF
PRE
PHASE COM
VCO
ST DECODER
AM RF
FM RF
AM MIX
FM MIX
AM DFT
AM AGC
AM IF
L DET
FM IF
FM DET
TUN LED
ST LED
AM / FM MONO SW
FREQ DIVIDER
HYS
SW
IC 101
AUX / CD
J101
FUNCTION SW
S101-1/-2
COMMON
CD/AUX
PHONO
TAPE
FM
MW
AM
75Ω
300Ω
IC301: PB AMP
IC 301
EQ SW
T1/T2 SW
BIAS
TAPE - 2
TAPE - 1
ERASE
IC302: REC AMP
IC 302
BIAS OSC
Q314, Q316: SPEED SWITCHING
HIGH SPEED ADJUST
HI - SPEED
MOTOR SUPPLY SUB ASSEMBLY
REC B+
+12V
PLAY B+
TAPE 2 IPLAY SW
Q103, Q104: MUTIN
MUTING S101-4
S101-3
S301-3
S301-4
S301-1/-2

IC 101	:TA8122AN	CF102	:AZT1050
IC 102	:LA3161	CF103, 104	:AZT1048
IC 301	:TA7784P	CF105	:AZT1049
IC 302	:BA3312N		
		L101	:AZT1060
Q101, 307, 310, 314, 316	:2SA733	L102	:AZT1053
		L103	:AZT1052
Q103, 104, 301~306, 311~313, 315	:2SC945	L104	:AZT1064
		L105	:AZT1054
		L106	:AZT1058
Q105, 106, 308, 309	:2SC1842E	L301, 302	:AZT1059
		L303, 304	:AZT1057
		L305	:AZT1056
D101	:1S2139B		
D102, 104, 301~307, 309, 310	:1N4148T	T101	:AZT1055
		T102	:AZT1051
D103	:RD5.6EB2	CF101	:AZT1061
SPR301, 302	:AZC1190		
VC101	:AZC1171		
S101	:AZS1055		
S301	:AZS1056		

6. P.C. BOARDS CONNECTION DIAGRAM


1
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3
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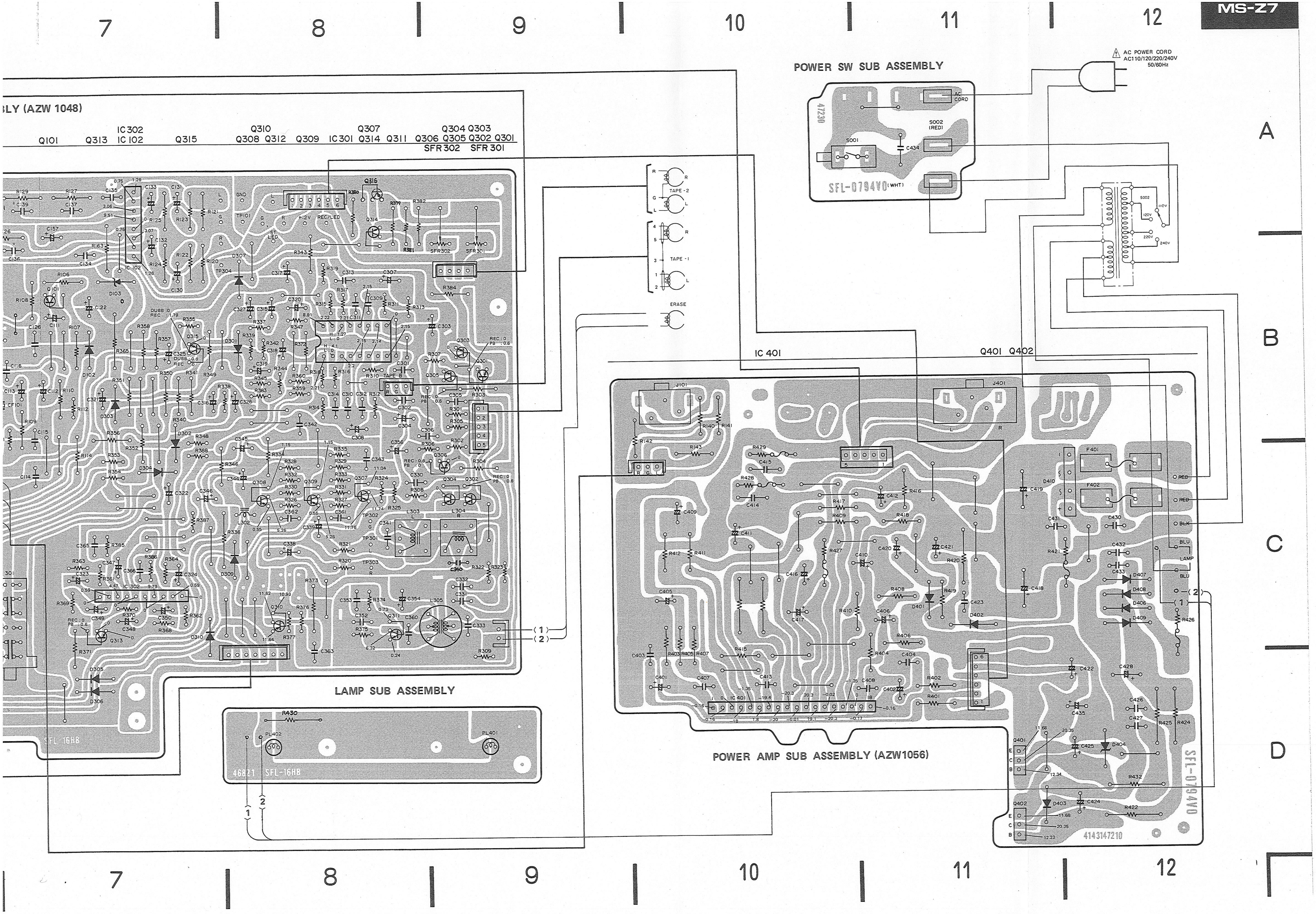
6
7
A
B
C
D
HEADPHONE LACK PCB ASSEMBLY
J501
R501
R502
47220
FM ANT
AM ANT
SFL-16HB
46831
MAIN SUB ASSEMBLY (AZW 1048)
Q105
Q103 Q104 Q106
VC101
IC101
Q101
Q313
TAPE SW ASSEMBLY
M
TAPE 2 MOTOR SW (RED)
TAPE 2 PLAY SW (BRN)
C359
C358
(BLU) TAPE 1 PLAY SW
(RED) TAPE 1 MOTOR SW
KUOTIANG
2934HB
404215230
MOTOR SUPPLY SUB ASSEMBLY
TONE PCB ASSEMBLY
IC 201
D201
D202
VR202
VR201
VR203
VR204
VR205
VR206
VR207
J201
J202
J203
J204
J205
J206
J207
J208
J209
S101
S301
T101
T102
L101
L102
L103
L104
L105
L106
L301
D101
D102
D104
D305
D306
CF101
CF102
CF103
CF104
CF105
4143146811
SFL-16HB


7
8
9
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11
12
A
B
C
D
BLY (AZW 1048)
IC 302
IC 102
Q101
Q313
Q315
Q310
Q308 Q312
Q309
IC 301
Q307
Q314
Q311
Q306
Q304 Q303
Q305 Q302 Q301
SFR 302
SFR 301
POWER SW SUB ASSEMBLY
AC POWER CORD
AC110/120/220/240V
50/60Hz
AC CORD
S001
S002 (RED)
C434
SFL-0794V0 (WHT)
47230
110V
120V
220V
240V
TAPE-2
TAPE-1
ERASE
REC/LED
GND
TP101
+12V
ST LED
IC 401
Q401 Q402
J101
J401
F401
F402
RED
BLK
BLU
LAMP
(1)
(2)
LAMP SUB ASSEMBLY
R430
PL402
PL401
46821 SFL-16HB
SFL-16HB
POWER AMP SUB ASSEMBLY (AZW1056)
SFL-0794V0
4143147210
L303
L304
L305
TAPE B

Headphone SW Sub Assembly

RESISTORS

Mark	Symbol & Description	Part No.
	R501, R502	RD1/2PMFL331J

OTHERS

Mark	Symbol & Description	Part No.
	J501 Headphone jack	AZK1078

Motor Supply Sub Assembly

CAPACITORS

Mark	Symbol & Description	Part No.
	C358, C359	CKDYF223Z50

Tape SW Sub Assembly

SWITCH

Mark	Symbol & Description	Part No.
★★	S R/P switch	AZS1058

Tone PCB Assembly

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC201	BA3824LS
★	D201, D202 LED	AZC1189 (LTL-23211AL)

CAPACITORS

Mark	Symbol & Description	Part No.
	C219, C220	CKPYB681K50
	C223, C224	CKPYX222N50
	C227, C228	CKPYX682N25
	C215–C218, C232, C231	CKPYX223N25S
	C221, C222	CKDYX683M25
	C225, C226	CEASR22M50
	C213, C214, C233, C234, C229, C230	CEAS010M50
	C208	CEAS101M16

RESISTORS

Mark	Symbol & Description	Part No.
★	VR202 Volume	AZC1174
★	VR201 Volume	AZC1175
★	VR203–VR207 Volume	AZC1176
	R202	RD1/4PM561J
	R213–R218	RD1/8PM□□□J

8. ADJUSTMENT

8.1 AM/FM RF ADJUSTMENT

1. Signal input must be as low as possible to avoid overload and clipping. (Use highest sensitivity of output indicator).
2. Balance and tone controls at mechanical center.
3. Standard modulation is 400 Hz at 30% amplitude for AM. 1000 Hz at 75 kHz deviation for FM.
4. Connect 4 ohm load across speaker jack.

Step	Signal Source	Signal Generator	Output Indicator	Dial Setting	Adjust	Adjust For –
MW RF Adjustment			SET FUNCTION SWITCH TO AM			
1	AM signal generator connect to a standard radiation loop antenna	MW 520 kHz	VTVM connect across speaker load	Lowest Freq.	L101	Maximum output on VTVM
2		MW1650 kHz		Highest Freq.	MW TC101	
3	Repeat Steps 1 and 2 as necessary to minimize tracking error					
4	AM signal generator connect to a standard radiation loop antenna	MW 600 kHz	VTVM connect across speaker load	Tune for signal	L105	Maximum output on VTVM
5		MW1650 kHz			MW TC104	
6	Repeat Steps 4 and 5 for Optimum Sensitivity					
FM RF Adjustment			SET FUNCTION SWITCH TO FM			
1	FM signal generator connect to a FM antenna terminal	87.5 MHz	VTVM connect across speaker load	Lowest Freq.	L103	Maximum output on VTVM
2		108.5 MHz		Highest Freq.	TC103	
3	Repeat Steps 1 and 2 as necessary to minimize tracking error					
4	FM signal generator connect to a FM antenna terminal	90 MHz	VTVM connect across speaker load	Tune for signal	L102	Maximum output on VTVM
5		106 MHz			TC102	
6	Repeat Steps 4 and 5 for Optimum Sensitivity					

8.2 CASSETTE TAPE SPEED ADJUSTMENT

1. Set function switch to TAPE.

Item	Signal source	Output indiccator	Mode	Adjustment	Specification
Tape speed adjustment (High speed)	Insert 3 kHz test tape. (STD-301)	Frequency counter connect to output terminal see Fig. 2.	Playback	Short-circuit TP304 and TP1 after playback SFR302. (High speed)	6030 Hz
Tape speed adjustment (Normal speed)				SFR301 (Normal speed)	3015 Hz

Headphone SW Sub Assembly

RESISTORS

Mark	Symbol & Description	Part No.
	R501, R502	RD1/2PMFL331J

OTHERS

Mark	Symbol & Description	Part No.
	J501 Headphone jack	AZK1078

Motor Supply Sub Assembly

CAPACITORS

Mark	Symbol & Description	Part No.
	C358, C359	CKDYF223Z50

Tape SW Sub Assembly

SWITCH

Mark	Symbol & Description	Part No.
★★	S R/P switch	AZS1058

Tone PCB Assembly

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC201	BA3824LS
★	D201, D202 LED	AZC1189 (LTL-23211AL)

CAPACITORS

Mark	Symbol & Description	Part No.
	C219, C220	CKPYB681K50
	C223, C224	CKPYX222N50
	C227, C228	CKPYX682N25
	C215–C218, C232, C231	CKPYX223N25S
	C221, C222	CKDYX683M25
	C225, C226	CEASR22M50
	C213, C214, C233, C234, C229, C230	CEAS010M50
	C208	CEAS101M16

RESISTORS

Mark	Symbol & Description	Part No.
★	VR202 Volume	AZC1174
★	VR201 Volume	AZC1175
★	VR203–VR207 Volume	AZC1176
	R202	RD1/4PM561J
	R213–R218	RD1/8PM□□□J

8. ADJUSTMENT

8.1 AM/FM RF ADJUSTMENT

1. Signal input must be as low as possible to avoid overload and clipping. (Use highest sensitivity of output indicator).
2. Balance and tone controls at mechanical center.
3. Standard modulation is 400 Hz at 30% amplitude for AM. 1000 Hz at 75 kHz deviation for FM.
4. Connect 4 ohm load across speaker jack.

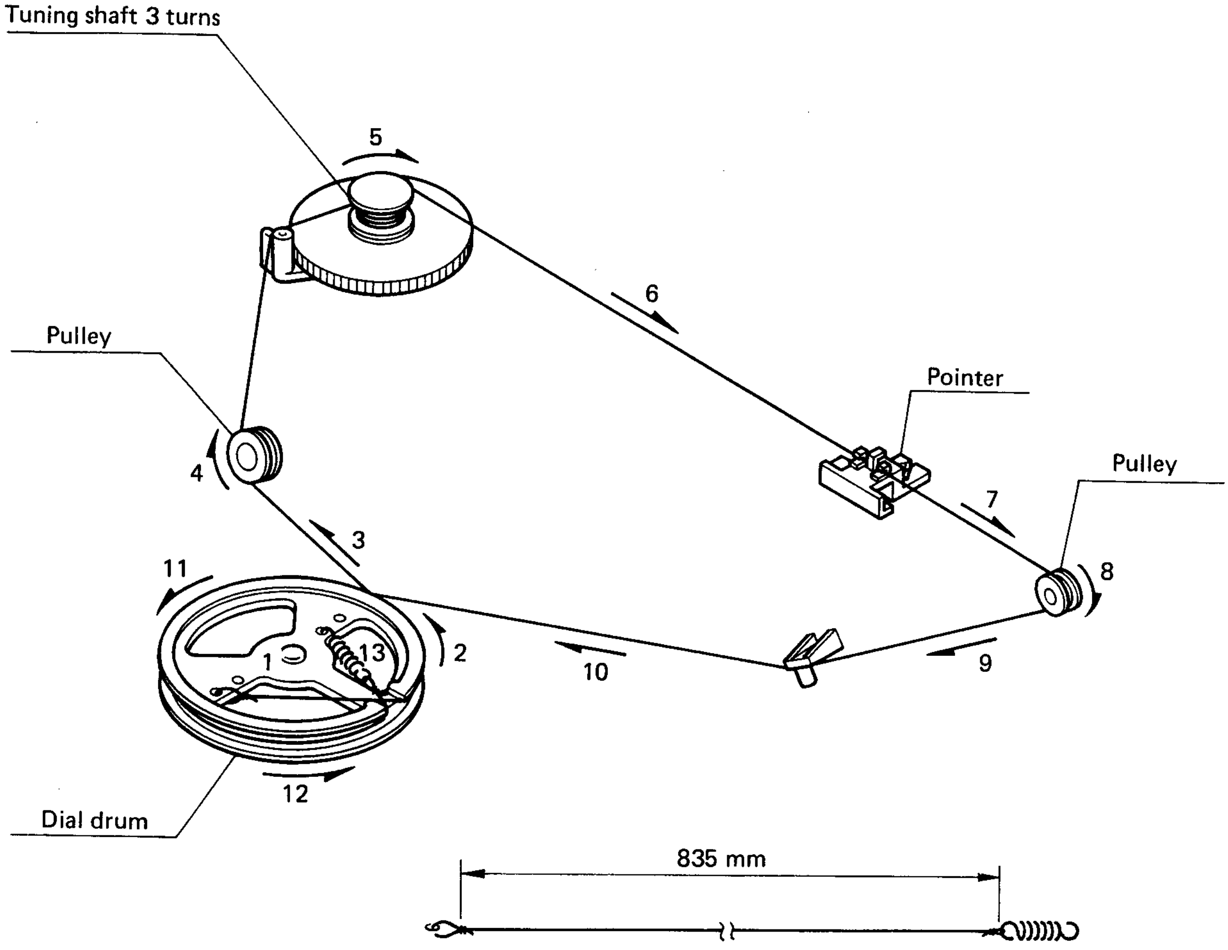
Step	Signal Source	Signal Generator	Output Indicator	Dial Setting	Adjust	Adjust For –
MW RF Adjustment			SET FUNCTION SWITCH TO AM			
1	AM signal generator connect to a standard radiation loop antenna	MW 520 kHz	VTVM connect across speaker load	Lowest Freq.	L101	Maximum output on VTVM
2		MW1650 kHz		Highest Freq.	MW TC101	
3	Repeat Steps 1 and 2 as necessary to minimize tracking error					
4	AM signal generator connect to a standard radiation loop antenna	MW 600 kHz	VTVM connect across speaker load	Tune for signal	L105	Maximum output on VTVM
5		MW1650 kHz			MW TC104	
6	Repeat Steps 4 and 5 for Optimum Sensitivity					
FM RF Adjustment			SET FUNCTION SWITCH TO FM			
1	FM signal generator connect to a FM antenna terminal	87.5 MHz	VTVM connect across speaker load	Lowest Freq.	L103	Maximum output on VTVM
2		108.5 MHz		Highest Freq.	TC103	
3	Repeat Steps 1 and 2 as necessary to minimize tracking error					
4	FM signal generator connect to a FM antenna terminal	90 MHz	VTVM connect across speaker load	Tune for signal	L102	Maximum output on VTVM
5		106 MHz			TC102	
6	Repeat Steps 4 and 5 for Optimum Sensitivity					

8.2 CASSETTE TAPE SPEED ADJUSTMENT

1. Set function switch to TAPE.

Item	Signal source	Output indiccator	Mode	Adjustment	Specification
Tape speed adjustment (High speed)	Insert 3 kHz test tape. (STD-301)	Frequency counter connect to output terminal see Fig. 2.	Playback	Short-circuit TP304 and TP1 after playback SFR302. (High speed)	6030 Hz
Tape speed adjustment (Normal speed)				SFR301 (Normal speed)	3015 Hz

9. DIAL THREADING


Tuning shaft 3 turns
5
6
Pulley
Pointer
Pulley
4
3
7
8
11
1
13
2
10
9
12
Dial drum
835 mm

1. Length of dial string = 835 mm.
2. Pointer indicator in max frequency position.
3. Points 1 and 13 are start and termination of dial string.

3. EXPLODED VIEWS AND PARTS LIST

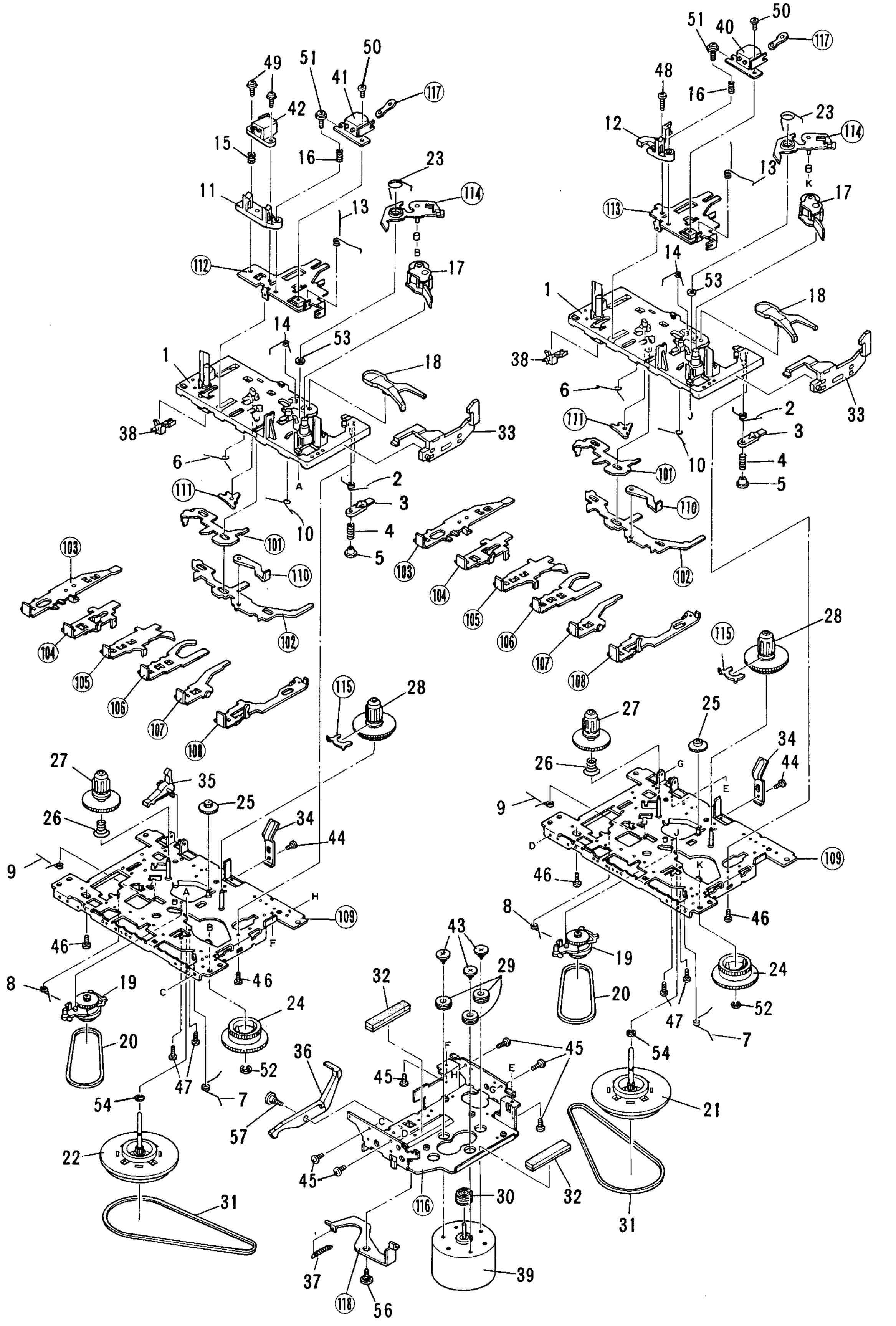
3.1 EXTERIOR

NOTES:

- *Parts without part number cannot be supplied.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *For your parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.*
  ★★ GENERALLY MOVES FASTER THAN ★
  This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*

Mark	No.	Part No.	Description
⚠	1	AZD1022	AC Power cord (For S type)
		AZD1023	AC Power cord (For SP type)
⚠ ★	2	AZT1062	Power transformer
⚠ ★★	3	AZK1082	Fuse (T5.0A/250V, F401, F402)
★★	4	AZS1067	Leaf switch
★★	5	AZS1069	PRI switch (AC 110V, 120V, 220V, 240V)
⚠	6	AZE1048	Strain relief
	7	AZN1583	Front escution
	8	AZN1584	Cassette button (REC)
	9	AZN1585	Cassette button (PLAY)
	10	AZN1586	Cassette button (REW)
	11	AZN1587	Cassette button (FF)
	12	AZN1588	Cassette button (STOP/EJECT)
	13	AZN1589	Cassette button (PAUSE)
	14	AZN1590	Pointer
	15	AZN1591	Dust cover assembly
	16	AZN1596	Side cabinet (L)
	17	AZN1597	Side cabinet (R)
	18	AZN1594	Power button
	19	AZN1595	Knob
	20	AZN1598	Dial window
	21	AZN1602	Leg assembly
	22	AZN1604	Cassette door
	23	AZN1605	Cassette window (A)
	24	AZN1606	Cassette window (B)
	25	AZN1607	Function knob
	26	AZN1608	Push knob
	27	AZW1048	Main sub assembly
	28	AZW1056	Power amp sub assembly
	29	AZN1611	Tuning knob
	30	AZN1614	Control plate
	31	AZN1615	EQ indicator
	32	AZN1616	Lever sheet
	33	AZN1613	Mirror
	34	AZN1625	Gear damper
	35	AZN1636	Lamp housing
	36	AZN1623	Cassette up spring
	37	AZE1047	Dial cord
	38	AZN1629	Escution nut
	39	AZN1633	Dial spring
	40	AZN1634	P-rivet
	41	AZN1637	Lamp holder
	42	AZN1638	REC lever
	43	AZB1639	Cabinet washer assembly
	44	....	....
	45	AZB1200	Screw
	46	AZB1201	Screw
	47	AZB1202	Screw
	48	. . .	. . .
	49	AZB1204	Screw
	50	AZB1205	Screw
	51	AZB1206	Screw
	52	AZB1207	Screw
	53	AZB1208	Screw
	54	AZB1209	Screw
	55	AZB1210	Screw
	56	AZB1211	Screw
	57	AZB1266	Screw
	58	AZB1213	Screw
	59	AZB1214	Screw
	60	AZX1029	Speaker box assembly
	61	AZN1700	Retainting clip
	101		Dust cover plate
	102		Antenna terminal sub assembly
	103		Lamp sub assembly
	104		Player base
	105		Power sw sub assembly
	106		Headphone sw sub assembly
	107		Tone P.C.B. assembly
	108		Motor supply sub assembly
	109		Tape sw sub assembly
	110		Dust cover
	111		Dust cover stopper
	112		Back board
	113		Bottom board
	114		Connector
	115		AC cord holder
	116		Player overlay
	117		Dial drum
	118		PCB holder (R)
	119		PCB holder (L)
	120		Buttom plate
	121		Heat sink
	122		Tuning holder
	123		PCB holder
	124		Tuning shaft
	125		Pulley
	126		. . .
	127		. . .
	128		Hinge
	129		Pulley assembly

3.2 CASSETTE MECHANISM ASSEMBLY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Cassette deck

Mark	No.	Part No.	Description
	1	AZN1641	Base assembly
	2	AZN1642	Control spring
	3	AZN1643	Pause lever
	4	AZN1644	Pause lever spring
	5	AZN1645	Pause stopper
	6	AZN1646	Button lever spring (A)
	7	AZN1647	Actuator spring
	8	AZN1648	PS lever spring
	9	AZN1649	REC button lever spring
	10	AZN1650	Button lever spring (B)
	11	AZN1651	Head base
	12	AZN1652	Head base
	13	AZN1653	Panel P spring
	14	AZN1654	Control spring
	15	AZN1655	Spring
	16	AZN1656	Azimuth spring
	17	AZN1657	Pinch roller arm assembly
	18	AZN1672	Sensing lever
	19	AZN1658	RF clutch assembly
★★	20	AZN1659	RF belt
	21	AZN1660	Flywheell assembly
	22	AZN1661	Flywheell assembly
	23	AZN1662	Gear plate spring
	24	AZN1663	Cam gear
	25	AZN1664	FF gear
	26	AZN1665	Back tension spring
	27	AZN1666	Supply reel assembly
	28	AZN1667	Take up reel assembly
	29	AZN1668	Motor rubber
	30	AZN1669	Motor pulley
★★	31	AZN1670	Main belt
	32	AZN1671	Anti vibration felt mat
	33	**AZN1677**	Eject slide lever
	34	AZN1673	Pack spring
	35	AZN1674	Record safety lever
	36	**AZN1679**	Kick lever (B)
	37	AZN1676	Kick lever spring
★★	38	AZS1068	Leaf switch
★★	39	AZX1027	Motor
★★	40	AZP1028	P head
★★	41	AZP1029	RP head
★	42	AZP1030	E head
	43	AZB1215	Screw
	44	AZB1216	Screw
	45	AZB1217	Screw
	46	AZB1218	Screw
	47	AZB1219	Screw
	48	AZB1220	Screw
	49	AZB1221	Screw
	50	AZB1222	Screw
	51	AZB1223	Screw
	52	AZB1224	Washer
	53	AZB1225	Washer
	54	AZB1226	Washer
	55	....	....
	56	AZB1228	Screw
	57	AZB1229	Screw
	101		Switch actuator
	102		Push button actuator
	103		REC button lever
	104		Play button lever
	105		Rew button lever
	106		FF button lever
	107		Stop button lever
	108		Pause button lever
	109		Chassis assembly
	110		Kick lever
	111		Stopper
	112		Head panel
	113		Head panel
	114		Gear plate assembly
	115		Sensor
	116		Motor bracket
	117		Lug plate
	118		Kick lever (A)

7. ELECTRICAL PARTS LIST

NOTES:

- *Parts without part number cannot be supplied.*
- *Parts marked by "◉" are not always kept in stock. Their delivery time may be longer than usual or they may be unavailable.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *For your parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.*
  ★★ GENERALLY MOVES FASTER THAN ★
  This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*
  Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).
  560Ω 56×10^1 561........................RD1/4PS [5] [6] [1] J
  47kΩ 47×10^3 473........................RD1/4PS [4] [7] [3] J
  0.5Ω 0R5..RN2H [0] [R] [5] K
  1Ω 010..RS1P [0] [1] [0] K
  Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).
  5.62kΩ 562×10^1 5621........................RN1/4SR [5] [6] [2] [1] F

Miscellaneous

Mark	Symbol & Description	Part No.
	Main sub assembly	AZW1048
	Antenna terminal sub assembly	
	Lamp sub assembly	
	Power amp sub assembly	AZW1056
	Power sw sub assembly	
	Heaphone sw sub assembly	
	Motor supply sub assembly	
	Tape sw sub assembly	
	Tone PCB assembly	
⚠	AC power cord (AC110V, 120V, 220V, 240V, For S type)	AZD1022
⚠	AC power cord (AC110V, 120V, 220V, 240V For SP type)	AZD1023
⚠ ★	Power transformer	AZT1062
⚠	Strain relief	AZE1048
⚠ ★★	F401, F402 Fuse (T5.0A/250V)	AZK1082
★★	Leaf switch	AZS1067
★★	Line voltage selector (110–120–220–240)	AZS1069
★★	Motor	AZX1027
★★	Leaf switch	AZS1068
★★	PLAY head	AZP1028
★★	REC/PLAY head	AZP1029
★	ERASE head	AZP1030
★★	DC motor assembly	AZX1028
★★	Leaf switch	AZN1720

Main Sub Assembly (AZW1048)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC101	TA8122AN
★★	IC301	TA7784P
★★	IC302	BA3312N
★★	IC102	LA3161
★★	Q103, Q104, Q301–Q306, Q311, Q313, Q315	2SC945
★★	Q101, Q307, Q310, Q314, Q316	2SA733
★★	Q105, Q106, Q308, Q309	2SC1842E (2SC1842F)
★	D103	RD5.6EB2
★	D102, D301–D307, D309, D310, D104	1N4148T
★	D101	IS2139B

SWITCHES

Mark	Symbol & Description		Part No.
★★	S101	Function switch	AZS1055
★★	S301	Push switch	AZS1056

COILS AND FILTERS

Mark	Symbol & Description		Part No.
	T102	FM antenna coil	AZT1051
	L103	FM OSC coil	AZT1052
	L102	FM RF coil	AZT1053
	L101	AM OSC coil	AZT1060
	L105	AM bar antenna	AZT1054
	T101	AM IFT	AZT1055
	L305	Bias OSC coil	AZT1056
	L303, L304	Bias trap coil	AZT1057
	L106	Chock coil (10μH)	AZT1058
	L301, L302	Inductor (3,3mH)	AZT1059
	L104	Choke coil (100μH)	AZT1064
	CF103, CF104	Ceramic filter	AZT1048
	CF105	Ceramic filter	AZT1049
	CF102	Ceramic filter	AZT1050

CAPACITORS

Mark	Symbol & Description	Part No.
	VC101 Poly variable tuning capacitor	AZC1171
	C110, C111, C130, C131	CEAS0R1M50
	C140, C141, C303, C304	CEAS010M50
	C108, C319, C348, C325	CEAS100M25
	C317, C318, C344, C354	CEAS101M16
	C132, C133, C347	CEAS220M16
	C122, C156, C157	CEAS221M16
	C120	CEAS330M16
	C356	CEAS471M10
	C112, C113, C150, C151	CEASR47M50
	C154, C155, C315, C316, C321–C324, C326–C329, C338, C339, C345, C346	CEAS4R7M50
	C142, C307, C308, C320, C349, C350	CEAS470M16
	C105	CCDSL040C50
	C101	CCPSL8R2K50
	C119, C125	CCPSL100J50
	C103, C104	CCDSL200J50
	C102	CCPSL220J50
	C340, C341	CCPSL121J50
	C152, C153, C309–C312, C331, C332	CKPYB221K50
	C365, C366	CKPYB271K50
	C106	CKPYB331K50
	C134, C135	CKDYB471K50
	C361, C362, C301, C302	CKPYB681K50
	C305, C306	CKPYB821K50
	C114, C115	CKPYB102K50
	C342, C343	CKDYB332K50
	C352	CKDYB472K50
	C334, C335, C136, C137	CKDYB822K50
	C313, C314, C353, C360	CKDYX103M25
	C118, C121, C123, C126, C127	CKDYF223Z50
	C336, C337, C138, C139	CKDYX273M25
	C109	CKDYX683M25
	C107	AZC1196
	C333	CQMA332K50
	C330, C363	CKPYX223N25S
	C116, C117	CKDYX123M25

RESISTORS

Mark	Symbol & Description	Part No.
★	SFR301, SFR302 Semi-fixed	AZC1190
	R163, R336, R365, R373	RD1/2PMF□□□J
	R101, R103–R110, R114, R120–R133, R154, R155, R162, R303, R304, R334, R340, R341, R343, R346, R349–R352, R356–R358, R371, R379–R382, R384, R372	RD1/4PM□□□J
	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description		Part No.
★	CF101	Ceramic resonator	AZT1061

Antenna Terminal Sub Assembly

OTHERS

Mark	Symbol & Description	Part No.
	Antenna terminal	AZK1077

Lamp Sub Assembly

RESISTOR

Mark	Symbol & Description	Part No.
	R430	RD1/2PM560J

OTHERS

Mark	Symbol & Description	Part No.
	Pilot lamp	AZE1046

Power Amp Sub Assembly (AZW1056)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC401	STK4111
★★	Q401, Q402	2SD882P
★	D410	KBL02
★	D402, D406–D409	1N4002L
★	D401	1N4148T
★	D403, D404	RD12EB2

CAPACITORS

Mark	Symbol & Description	Part No.
	C418, C419	CEAS332M25
	C428	CEAS222M25
	C411, C412, C416	CEAS100M50
	C417, C420	CEAS101M35
	C401, C402	CEAS2R2M50
	C422, C424, C425, C435	CEAS221M16
	C405, C406, C409, C410	CEAS470M16
	C421	CEAS470M35
	C407, C408	CCPSL101J50
	C430–C433, C426, C427, C423	CKDYF223Z50
	C413–C415	CQMA104J50
	C403, C404	CQSH681J50

RESISTORS

Mark	Symbol & Description		Part No.
	R426	Fusible resistor	RF1/2PS010J
	R421, R424, R425, R427–R429	Fusible resistor	RF1/4PS□□□J
	R413, R414, R420, R422, R423		RD1/2PMFL□□□J
		Other resistors	RD1/4PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	J101, J401 2P Pin jack	AZK1080

Power SW Sub Assembly

SWITCH

Mark	Symbol & Description		Part No.
⚠ ★★	S001	Power switch	AZS1057

CAPACITOR

Mark	Symbol & Description	Part No.
	C434 (4700pF/400V)	AZC1173

Headphone SW

RESISTORS

Mark	Symbol & De
	R501, R502

OTHERS

Mark	Symbol & De
	J501

Motor Supply Su

CAPACITORS

Mark	Symbol & De
	C358, C359

Tape SW Sub As

SWITCH

Mark	Symbol & Des
★★	S

7. ELECTRICAL PARTS LIST

NOTES:

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- *For your parts Stock Control, the fast moving items are indicated with the marks ★★ and ★.*
  ★★ GENERALLY MOVES FASTER THAN ★
  This classification shall be adjusted by each distributor because it depends on model number, temperature, humidity, etc.
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560Ω 56 × 10^1 561........................RD1/4PS $\boxed{5}$ $\boxed{6}$ $\boxed{1}$ J
47kΩ 47 × 10^3 473........................RD1/4PS $\boxed{4}$ $\boxed{7}$ $\boxed{3}$ J
0.5Ω 0R5...RN2H $\boxed{0}$ $\boxed{R}$ $\boxed{5}$ K
1Ω 010...RS1P $\boxed{0}$ $\boxed{1}$ $\boxed{0}$ K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).
5.62kΩ 562 × 10^1 5621........................RN1/4SR $\boxed{5}$ $\boxed{6}$ $\boxed{2}$ $\boxed{1}$ F

Miscellaneous

Mark	Symbol & Description	Part No.
	Main sub assembly	AZW1048
	Antenna terminal sub assembly	
	Lamp sub assembly	
	Power amp sub assembly	AZW1056
	Power sw sub assembly	
	Heaphone sw sub assembly	
	Motor supply sub assembly	
	Tape sw sub assembly	
	Tone PCB assembly	
	AC power cord (AC110V, 120V, 220V, 240V, For S type)	AZD1022
	AC power cord (AC110V, 120V, 220V, 240V For SP type)	AZD1023
★	Power transformer	AZT1062
	Strain relief	AZE1048
★★	F401, F402 Fuse (T5.0A/250V)	AZK1082
★★	Leaf switch	AZS1067
★★	Line voltage selector (110–120–220–240)	AZS1069
★★	Motor	AZX1027
★★	Leaf switch	AZS1068
★★	PLAY head	AZP1028
★★	REC/PLAY head	AZP1029
★	ERASE head	AZP1030
★★	DC motor assembly	AZX1028
★★	Leaf switch	AZN1720

Main Sub Assembly (AZW1048)

EMICONDUCTORS

ark	Symbol & Description	Part No.
★★	IC101	TA8122AN
★★	IC301	TA7784P
★★	IC302	BA3312N
★★	IC102	LA3161
★★	Q103, Q104, Q301–Q306, Q311, Q313, Q315	2SC945
★★	Q101, Q307, Q310, Q314, Q316	2SA733
★★	Q105, Q106, Q308, Q309	2SC1842E (2SC1842F)

Mark	Symbol & Description	Part No.
★	D103	RD5.6EB2
★	D102, D301–D307, D309, D310, D104	1N4148T
★	D101	IS2139B

SWITCHES

Mark	Symbol & Description	Part No.
★★	S101 Function switch	AZS1055
★★	S301 Push switch	AZS1056

COILS AND FILTERS

Mark	Symbol & Description	Part No.
	T102 FM antenna coil	AZT1051
	L103 FM OSC coil	AZT1052
	L102 FM RF coil	AZT1053
	L101 AM OSC coil	AZT1060
	L105 AM bar antenna	AZT1054
	T101 AM IFT	AZT1055
	L305 Bias OSC coil	AZT1056
	L303, L304 Bias trap coil	AZT1057
	L106 Chock coil (10μH)	AZT1058
	L301, L302 Inductor (3,3mH)	AZT1059
	L104 Choke coil (100μH)	AZT1064
	CF103, CF104 Ceramic filter	AZT1048
	CF105 Ceramic filter	AZT1049
	CF102 Ceramic filter	AZT1050

CAPACITORS

Mark	Symbol & Description	Part No.
	VC101 Poly variable tuning capacitor	AZC1171
	C110, C111, C130, C131	CEAS0R1M50
	C140, C141, C303, C304	CEAS010M50
	C108, C319, C348, C325	CEAS100M25
	C317, C318, C344, C354	CEAS101M16
	C132, C133, C347	CEAS220M16
	C122, C156, C157	CEAS221M16
	C120	CEAS330M16
	C356	CEAS471M10

Mark	Symbol & Description	Part No.
	C112, C113, C150, C151	CEASR47M50
	C154, C155, C315, C316, C321–C324, C326–C329, C338, C339, C345, C346	CEAS4R7M50
	C142, C307, C308, C320, C349, C350	CEAS470M16
	C105	CCDSL040C50
	C101	CCPSL8R2K50
	C119, C125	CCPSL100J50
	C103, C104	CCDSL200J50
	C102	CCPSL220J50
	C340, C341	CCPSL121J50
	C152, C153, C309–C312, C331, C332	CKPYB221K50
	C365, C366	CKPYB271K50
	C106	CKPYB331K50
	C134, C135	CKDYB471K50
	C361, C362, C301, C302	CKPYB681K50
	C305, C306	CKPYB821K50
	C114, C115	CKPYB102K50
	C342, C343	CKDYB332K50
	C352	CKDYB472K50
	C334, C335, C136, C137	CKDYB822K50
	C313, C314, C353, C360	CKDYX103M25
	C118, C121, C123, C126, C127	CKDYF223Z50
	C336, C337, C138, C139	CKDYX273M25
	C109	CKDYX683M25
	C107	AZC1196
	C333	CQMA332K50
	C330, C363	CKPYX223N25S
	C116, C117	CKDYX123M25

RESISTORS

Mark	Symbol & Description	Part No.
★	SFR301, SFR302 Semi-fixed	AZC1190
	R163, R336, R365, R373	RD1/2PMF□□□J
	R101, R103–R110, R114, R120–R133, R154, R155, R162, R303, R304, R334, R340, R341, R343, R346, R349–R352, R356–R358, R371, R379–R382, R384, R372	RD1/4PM□□□J
	Other resistors	RD1/8PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
★	CF101 Ceramic resonator	AZT1061

Antenna Terminal Sub Assembly

OTHERS

Mark	Symbol & Description	Part No.
	Antenna terminal	AZK1077

Lamp Sub Assembly

RESISTOR

Mark	Symbol & Description	Part No.
	R430	RD1/2PM560J

OTHERS

Mark	Symbol & Description	Part No.
	Pilot lamp	AZE1046

Power Amp Sub Assembly (AZW1056)

SEMICONDUCTORS

Mark	Symbol & Description	Part No.
★★	IC401	STK4111
★★	Q401, Q402	2SD882P
★	D410	KBL02
★	D402, D406–D409	1N4002L
★	D401	1N4148T
★	D403, D404	RD12EB2

CAPACITORS

Mark	Symbol & Description	Part No.
	C418, C419	CEAS332M25
	C428	CEAS222M25
	C411, C412, C416	CEAS100M50
	C417, C420	CEAS101M35
	C401, C402	CEAS2R2M50
	C422, C424, C425, C435	CEAS221M16
	C405, C406, C409, C410	CEAS470M16
	C421	CEAS470M35
	C407, C408	CCPSL101J50
	C430–C433, C426, C427, C423	CKDYF223Z50
	C413–C415	CQMA104J50
	C403, C404	CQSH681J50

RESISTORS

Mark	Symbol & Description	Part No.
	R426 Fusible resistor	RF1/2PS010J
	R421, R424, R425, R427–R429 Fusible resistor	RF1/4PS□□□J
	R413, R414, R420, R422, R423	RD1/2PMFL□□□J
	Other resistors	RD1/4PM□□□J

OTHERS

Mark	Symbol & Description	Part No.
	J101, J401 2P Pin jack	AZK1080

Power SW Sub Assembly

SWITCH

Mark	Symbol & Description	Part No.
⚠ ★★	S001 Power switch	AZS1057

CAPACITOR

Mark	Symbol & Description	Part No.
	C434 (4700pF/400V)	AZC1173

Headphone SW S

RESISTORS

Mark	Symbol & Desc
	R501, R502

OTHERS

Mark	Symbol & Desc
	J501 H

Motor Supply Sub

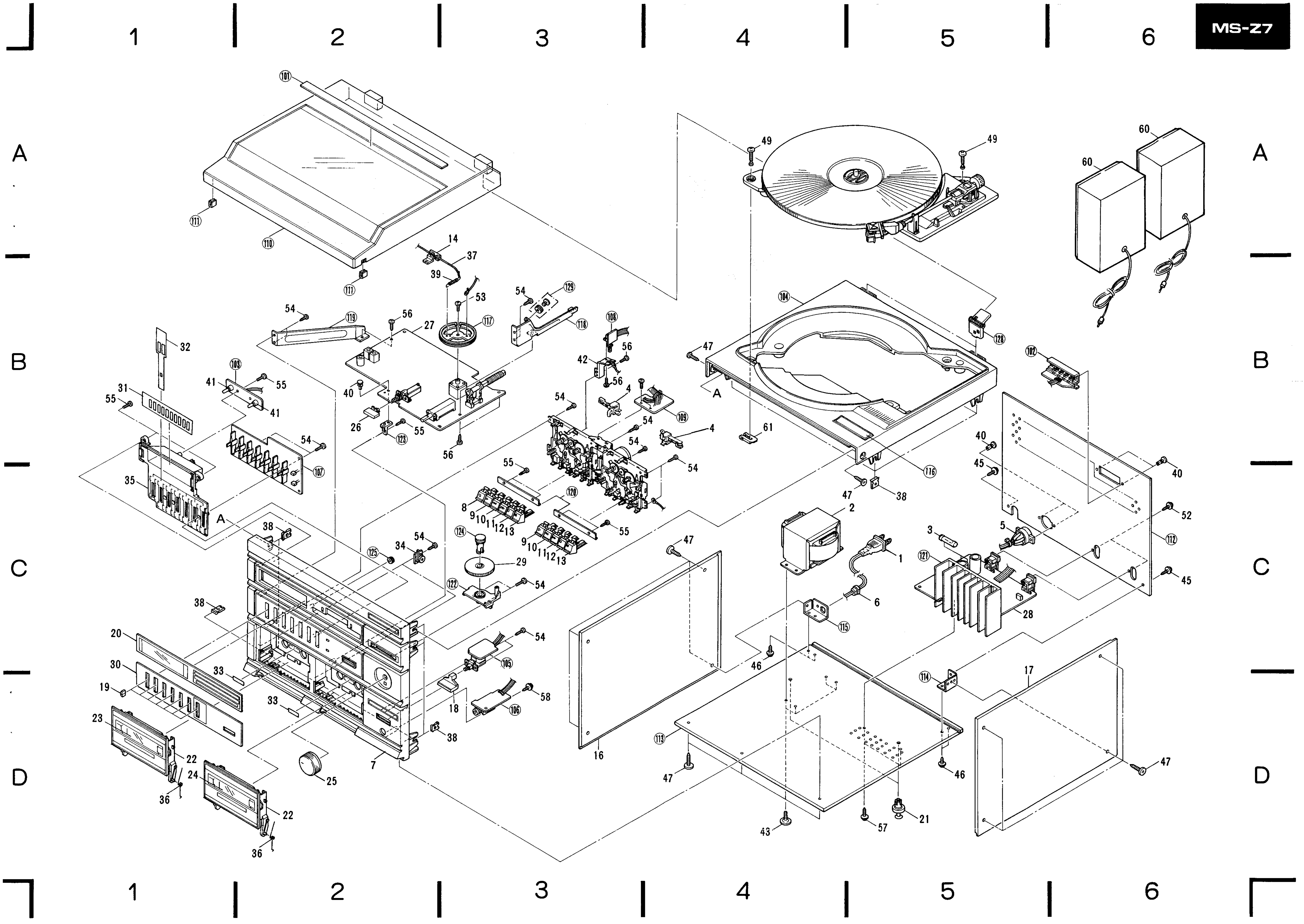
CAPACITORS

Mark	Symbol & Desc
	C358, C359

Tape SW Sub Ass

SWITCH

Mark	Symbol & Desc
★★	S R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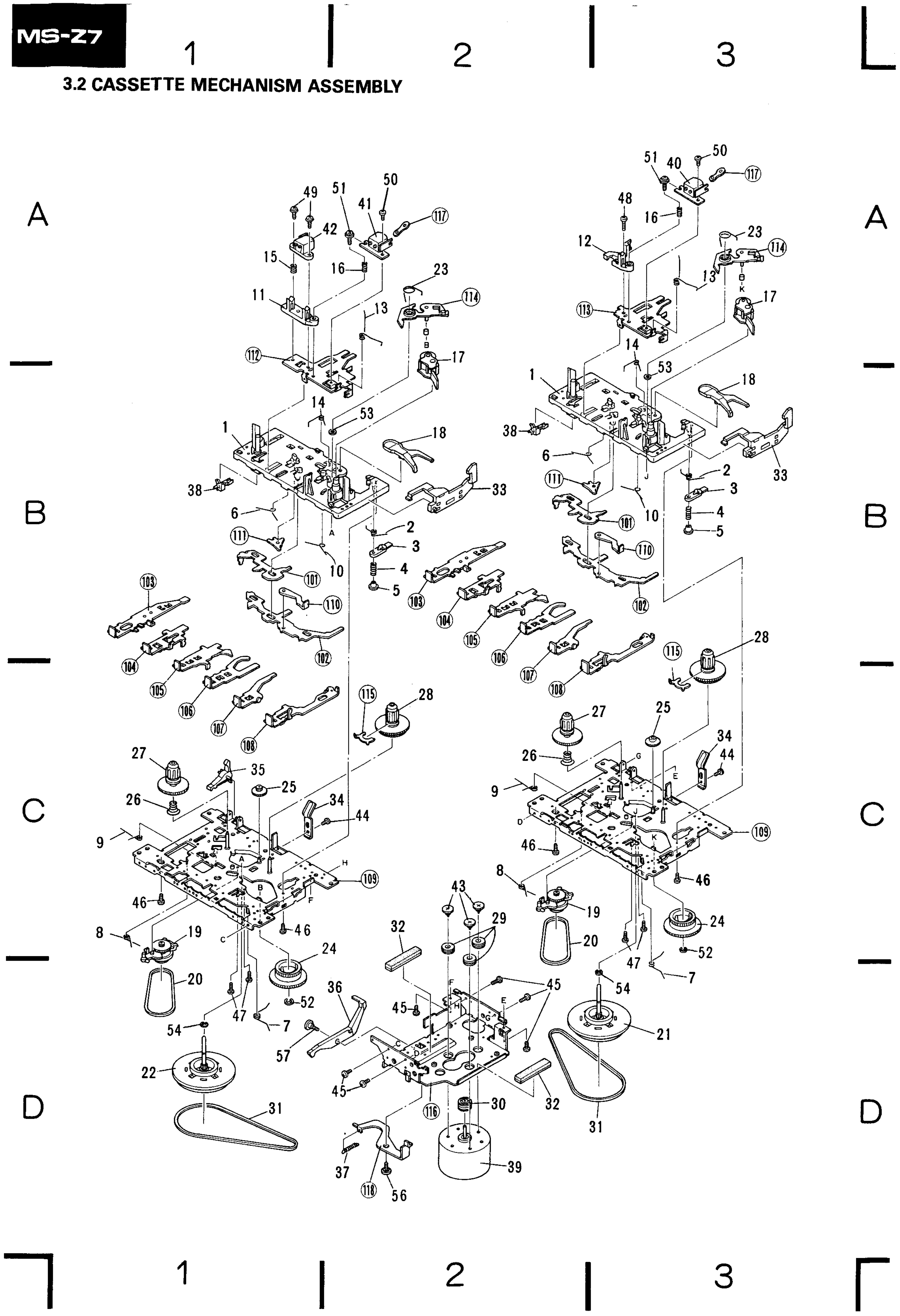
3.2 CASSETTE MECHANISM ASSEMBLY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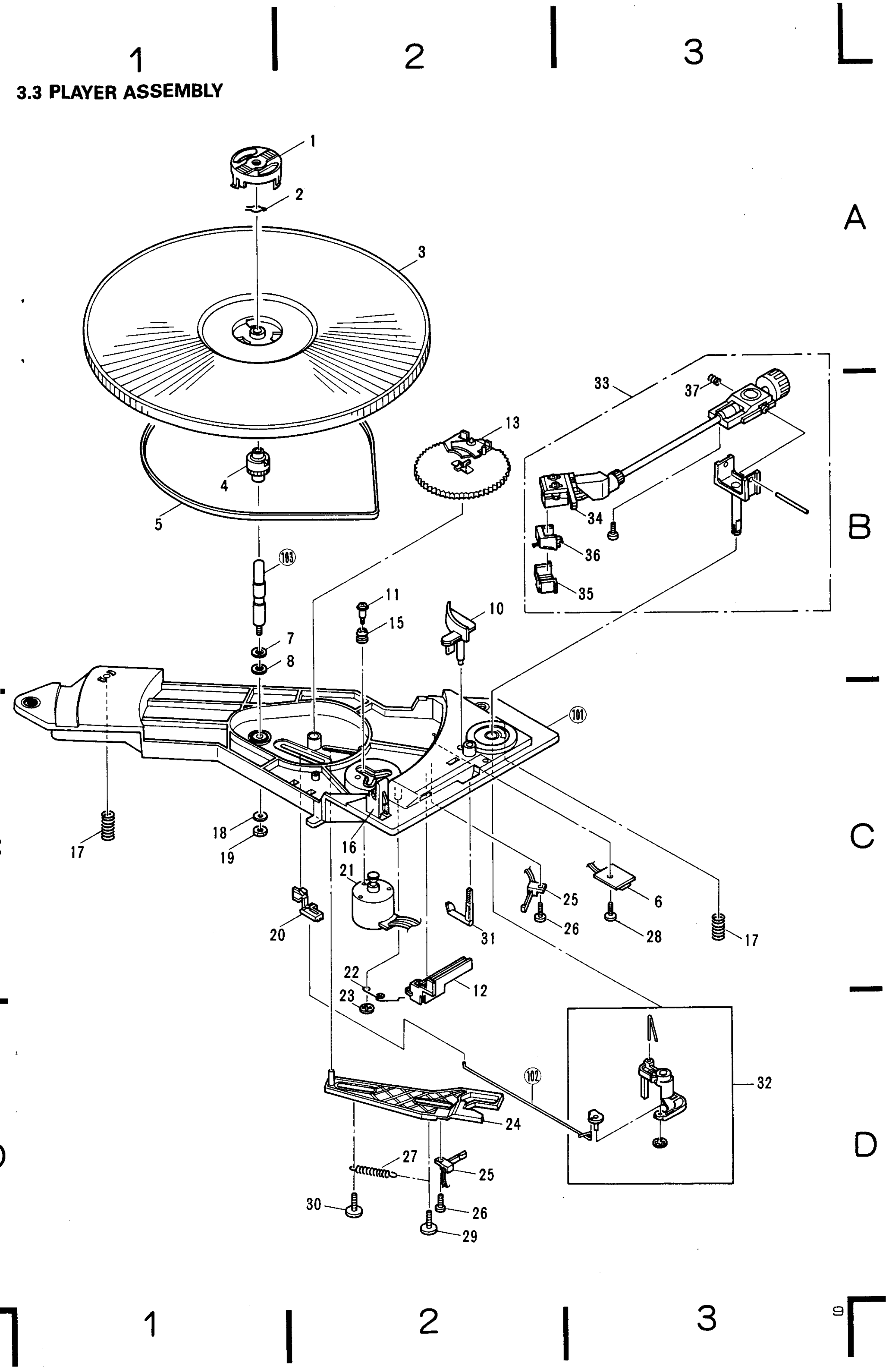
Cassette deck

Mark	No.	Part No.	Description
	1	AZN1641	Base assembly
	2	AZN1642	Control spring
	3	AZN1643	Pause lever
	4	AZN1644	Pause lever spring
	5	AZN1645	Pause stopper
	6	AZN1646	Button lever spring (A)
	7	AZN1647	Actuator spring
	8	AZN1648	PS lever spring
	9	AZN1649	REC button lever spring
	10	AZN1650	Button lever spring (B)
	11	AZN1651	Head base
	12	AZN1652	Head base
	13	AZN1653	Panel P spring
	14	AZN1654	Control spring
	15	AZN1655	Spring
	16	AZN1656	Azimuth spring
	17	AZN1657	Pinch roller arm assembly
	18	AZN1672	Sensing lever
	19	AZN1658	RF clutch assembly
★★	20	AZN1659	RF belt
	21	AZN1660	Flywhell assembly
	22	AZN1661	Flywhell assembly
	23	AZN1662	Gear plate spring
	24	AZN1663	Cam gear
	25	AZN1664	FF gear
	26	AZN1665	Back tension spring
	27	AZN1666	Supply reel assembly
	28	AZN1667	Take up reel assembly
	29	AZN1668	Motor rubber
	30	AZN1669	Motor pulley
★★	31	AZN1670	Main belt
	32	AZN1671	Anti vibration felt mat
	33	AZN1677	Eject slide lever
	34	AZN1673	Pack spring
	35	AZN1674	Record safety lever
	36	AZN1679	Kick lever (B)
	37	AZN1676	Kick lever spring
★★	38	AZS1068	Leaf switch
★★	39	AZX1027	Motor
★★	40	AZP1028	P head
★★	41	AZP1029	RP head
★	42	AZP1030	E head
	43	AZB1215	Screw
	44	AZB1216	Screw
	45	AZB1217	Screw
	46	AZB1218	Screw
	47	AZB1219	Screw
	48	AZB1220	Screw
	49	AZB1221	Screw
	50	AZB1222	Screw
	51	AZB1223	Screw
	52	AZB1224	Washer
	53	AZB1225	Washer
	54	AZB1226	Washer
	55	....	....
	56	AZB1228	Screw
	57	AZB1229	Screw
	101		Switch actuator
	102		Push button actuator
	103		REC button lever
	104		Play button lever
	105		Rew button lever
	106		FF button lever
	107		Stop button lever
	108		Pause button lever
	109		Chassis assembly
	110		Kick lever
	111		Stopper
	112		Head panel
	113		Head panel
	114		Gear plate assembly
	115		Sensor
	116		Motor bracket
	117		Lug plate
	118		Kick lever (A)

3.3 PLAYER ASSEMBLY



Player Assembly

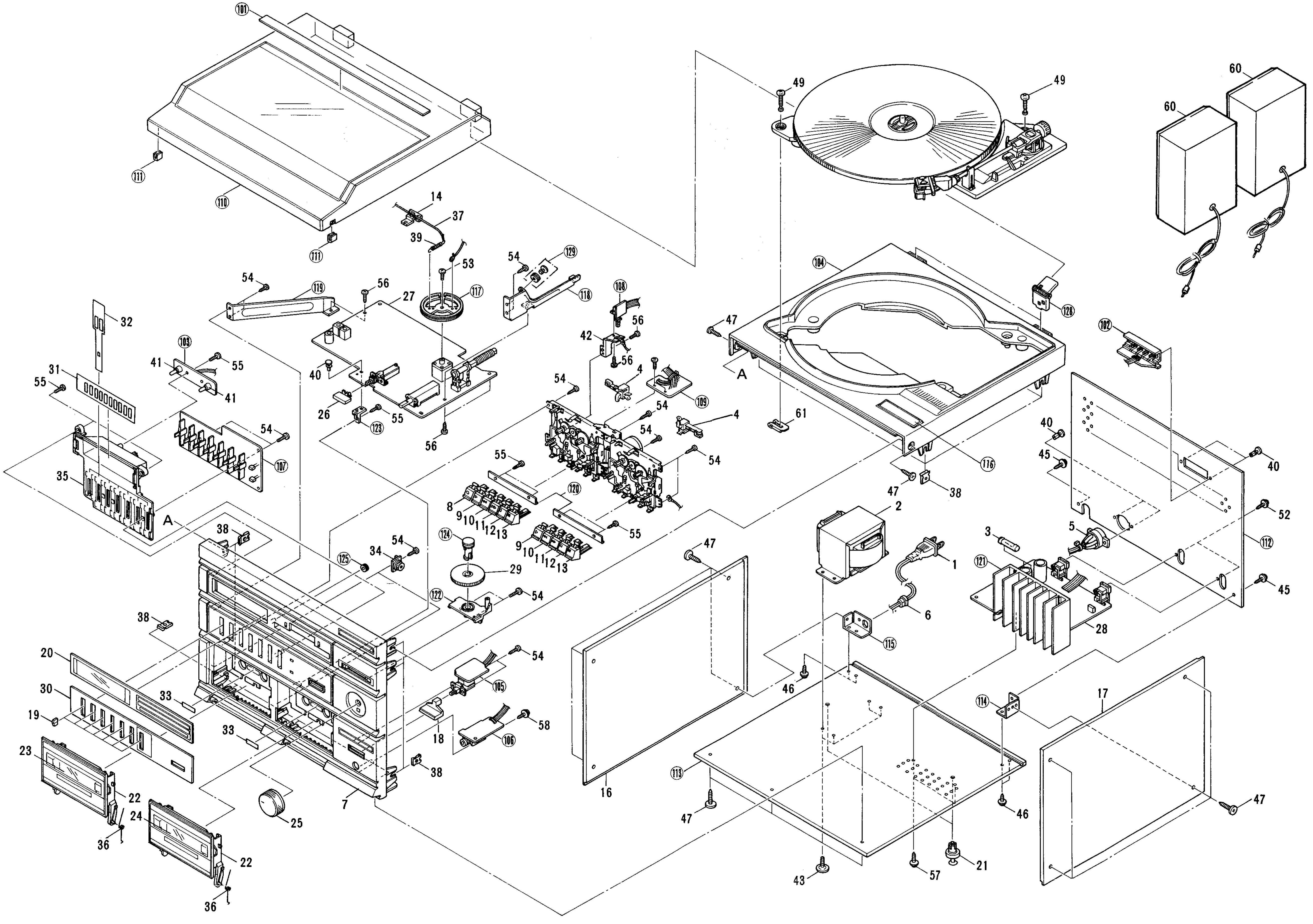
Mark	No.	Part No.	Description
	1	AZN1691	T/T adaptor
	2	AZN1692	Spindle clip
	3	AZN1694	Turntable
	4	AZN1695	Turntable gear
★★	5	AZN1696	T/T belt
	6	AZW1057	Motor supply PCB assembly
	7	AZB1230	Washer
	8	AZB1231	Washer
	9	. . .	. . .
	10	AZN1701	Lift platform
	11	AZN1704	Screw
	12	AZN1706	Speed lever
	13	AZN1708	Cam gear assembly
	14	AZN1700	Retaining cap
	15	AZN1705	Grommet
	16	AZN1707	P.U. hook
	17	AZN1713	Base spring
	18	AZN1714	Spring washer
	19	AZB1232	Nut
	20	AZN1715	Trip lever
★★	21	AZX1028	DC motor assembly
	22	AZN1717	Speed lever spring
	23	AZN1718	Nut
	24	AZN1719	Slide arm
★★	25	AZN1720	Leaf switch
	26	AZB1233	Screw
	27	AZN1721	Slide arm spring
	28	AZB1234	Screw
	29	AZN1722	Slide arm screw
	30	AZB1235	Screw
	31	AZN1723	Lever
	32	AZN1724	Return link assembly
	33	AZN1729	P.U. arm assembly
	34	AZN1737	Cartridge assemlby
	35	AZN1739	Cartridge cover
	36	AZN1738	Stylus
	37	AZN1741	Body spring

Mark	No.	Part No.	Description
	101		Base
	102		Trid rod
	103		T/T spindle

4. PAC

- **Parts Lis**

Mark Nc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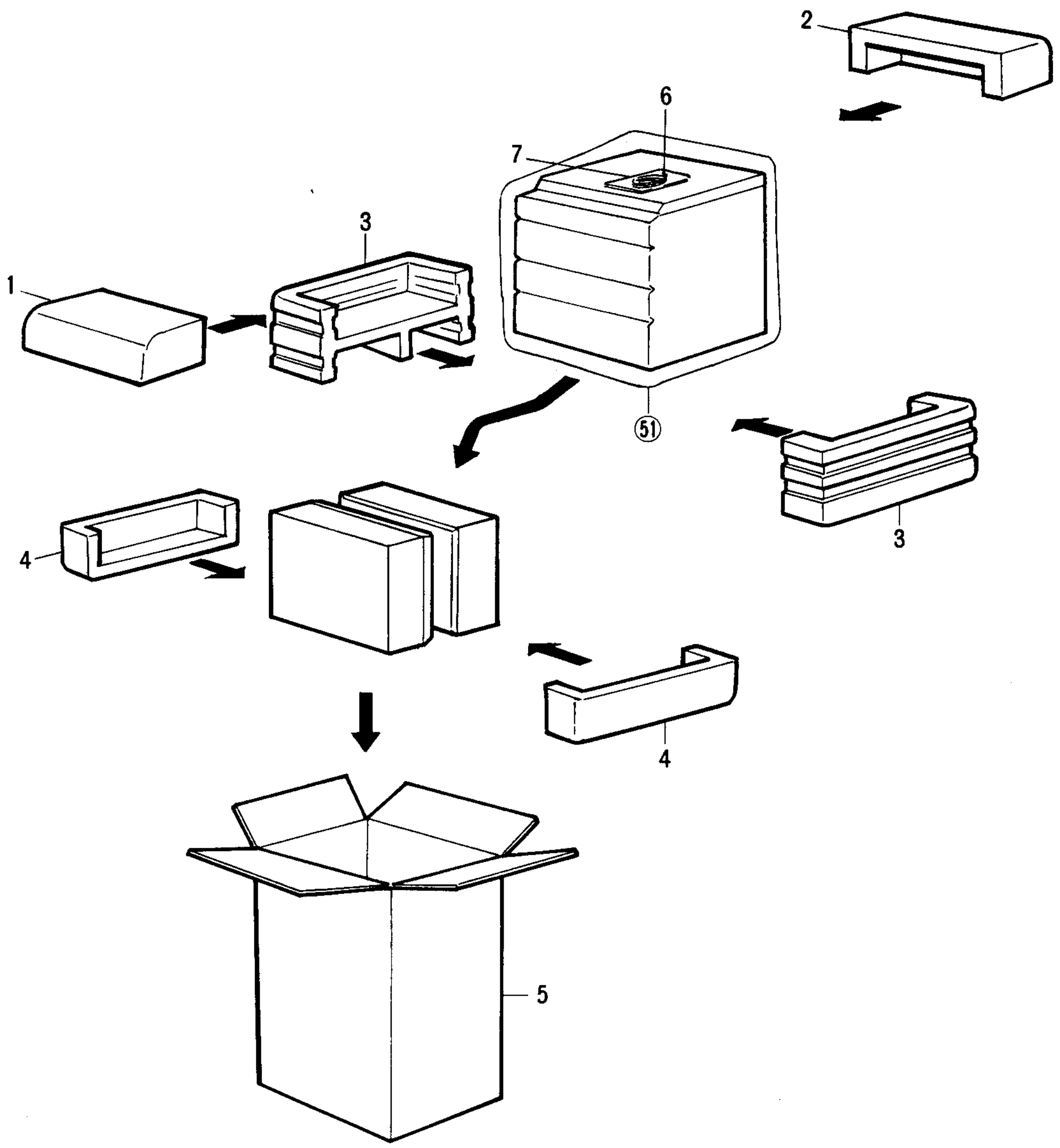
4. PACKING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• Parts List of Packing

Mark	No.	Part No.	Description
	1	AZH1038	Show box (TOP1)
	2	AZH1039	Show box (TOP2)
	3	AZH1040	Show box (MID)
	4	AZH1041	Show box (BOTTOM)
	5	AZH1042	Master carton
		AZH1055	Master carton (SP type only)
	6	AZE1049	FM indoor antenna
	7	AZQ1019	Operating instructions
	51		Polyethylene bag

• External Appearance of Transistors and ICs

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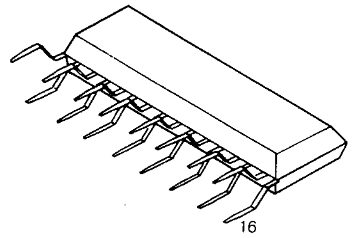

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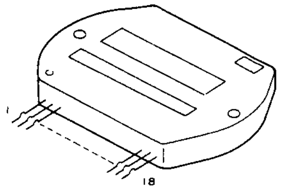

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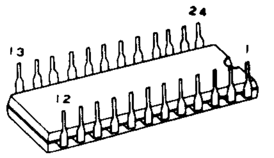

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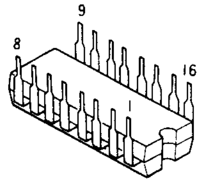

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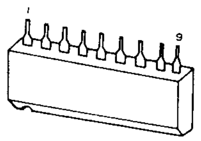

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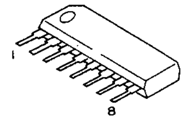

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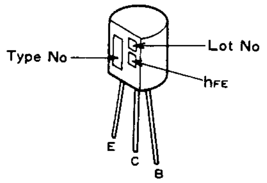
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